

8/20/01



23351

PATENT TRADEMARK OFFICE

Practitioner's Docket No. LAR 15908-1

PATENT APPLICATION

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

J1002 U.S. Pro  
09/932872  
08/17/01



COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING  
NEW PATENT APPLICATION (37 C.F.R. section 3.31)

IDENTIFICATION OF APPLICATION  
(37 C.F.R. section 3.21 and 37 C.F.R. section 3.31(a)(4))

1. The patent application filed herewith and, to which the attached assignment (document) refers, is identified as follows:
- Type of application: Application of patent (37 C.F.R. section 1.53(b))
  - Date of execution: August 17, 2001
  - Name of each inventor:  
1: Horner, Garnett C.  
2: Teter, Jr., John Edward  
3: Robbins, William Eugene  
4: Copeland, Benjamin M.
  - Title of invention: PIEZOELECTRIC COMPOSITE DEVICE AND METHOD FOR MAKING SAME

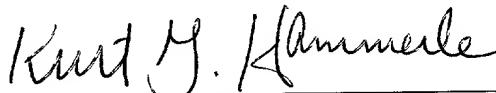
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CERTIFICATION UNDER 37 C.F.R. SECTION 1.10\*

(Express Mail label number is mandatory.)

(Express Mail certification is optional.)

I hereby certify that this "Cover Sheet for Assignment (Document) Accompanying New Patent Application" and the documents referred to as attached therein are being deposited with the United States Postal Service on this date, August 17, 2001, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EF360628136US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.



Kurt G. Hammerle  
Reg. No. 36,819

**WARNING:** Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. section 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b).

"Since the filing of correspondence under SECTION 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

**NAME OF PARTY(IES) CONVEYING INTEREST (37 C.F.R. section 3.31(a)(1))**

2. The parties conveying this interest are:

Horner, Garnett C.  
Teter, Jr., John Edward  
Robbins, William Eugene  
Copeland, Benjamin M.

**NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST  
(37 C.F.R. section 3.31(a)(2))**

3. The rights are being conveyed to: The United States Government, as represented by the administrator of the National Aeronautics and Space Administration.

**DESCRIPTION OF INTEREST CONVEYED OR TRANSACTION RECORDED  
(37 C.F.R. section 3.31 (a)(3))**

4. The accompanying document intends to accomplish: an assignment.

**NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE  
SHOULD BE MAILED (37 C.F.R. section 3.31(a)(5))**

5. Please address correspondence to:

NASA Langley Research Center  
Mail Stop 212  
Hampton, VA 23681-2199  
757-864-2470

**DATE ASSIGNMENT (DOCUMENT) EXECUTED (37 C.F.R. section 3.31(a)(7))**

6. The attached assignment (document) was executed on August 17, 2001.

**LANGUAGE OF ASSIGNMENT (DOCUMENT) TO BE RECORDED**

7. The attached document is in the English language.

**ORIGINAL DOCUMENT OR TRUE COPY SUBMITTED**

8. Submitted herewith is the original document.

**NUMBER OF APPLICATIONS IDENTIFIED IN THIS COVER SHEET  
AND THE FEE**

9. A. This cover sheet identifies only one application.  
B. The fee for recordal (37 C.F.R. section 1.21(h)) is \$40. Please charge Account 14-0116. A duplicate of this cover sheet is attached.

**STATEMENT (37 C.F.R. section 3.31(a)(9))  
AND SIGNATURE (37 C.F.R. section 3.31(a)(10))**

- 10.** To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

*Kurt G. Hammerle*

Kurt G. Hammerle  
Reg. No.: 36,819

NASA Langley Research Center  
Mail Stop 212  
Hampton, VA 23681-2199  
Tel. No.: 757-864-2470

**TOTAL NUMBER OF PAGES BEING SUBMITTED**

- 11.** The total number of pages being submitted including cover sheet, attachment(s), and document(s) are: 5

jc498 U.S. PTO

8-20-01



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PATENT TRADEMARK OFFICE  
PATENT APPLICATION

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Practitioner's Docket No. LAR 15908-1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Box Patent Application**  
**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventors: Garnett C. Horner; John Edward Teter, Jr.; William Eugene Robbins; Benjamin M. Copeland

For: PIEZOELECTRIC COMPOSITE DEVICE AND METHOD FOR MAKING SAME

**1. Type of Application**

This transmittal is for an original (nonprovisional) application.

**2. Papers Enclosed**

- A. Required for filing date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

11 Page(s) of Specification  
9 Page(s) of Claims  
10 Sheet(s) of Drawing(s)--Informal

B. Other Papers Enclosed

2 Pages of declaration and power of attorney  
1 Pages of abstract

**3. Additional Papers Enclosed**

Information Disclosure Statement (37 C.F.R. 1.98)  
Assignment and Transmittal Form

**4. Declaration or Oath**

Enclosed.

Executed by: Garnett C. Horner; John Edward Teter, Jr.; William Eugene Robbins;  
Benjamin M. Copeland

**5. Inventorship Statement**

The inventorship for all the claims in this application is the same.

**6. Language**

English

**7. Assignment**

An assignment of the invention to The United States Government, as represented by the administrator of the National Aeronautics and Space Administration, is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" is also attached.

**8. Fee Calculation (37 C.F.R. Section 1.16)**

Regular Application

**CLAIMS AS FILED**

Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 CFR 1.16(a)
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Total Claims  
(37 CFR 1.16(c))      42      - 20 =      22 x      \$18.00      \$396.00

Independent Claims  
(37 CFR 1.16(b))      5      - 3 =      2 x      \$40.00      \$80.00

Multiple Dependent  
Claim(s), if any  
(37 CFR 1.16(d))      +      \$0.00      \$0.00

Filing Fee Calculation      \$476.00

**9. Fee Payment Being Made at This Time**

Enclosed.

Filing Fee	\$710.00
Recording assignment (37 C.F.R. Section 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$40.00
Excess Claims	\$476.00
<b>Total Fees Enclosed</b>	<b>\$1,226.00</b>

**10. Method of Payment of Fees**

Charge Account No. 14-0116 in the amount of \$1,226.00. A duplicate of this transmittal is attached.

**11. Authorization to Charge Additional Fees**

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 14-0116.

37 C.F.R. Section 1.16(b), (c) or (d) (presentation of extra claims)

**12. Instructions as to Overpayment**

Credit Account No. 14-0116.

Date: AUGUST 17, 2001



Kurt G. Hammerle  
Reg. No. 36,819  
NASA Langley Research Center  
Mail Stop 212  
Hampton, VA 23681-2199  
757-864-2470



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PATENT TRADEMARK OFFICE

**PATENT APPLICATION**

Practitioner's Docket No. LAR 15908-1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Horner, Garnett C; Teter, Jr, John E; Robbins, William E; and Copeland, Benjamin M  
Application No.: Group No.:

Filed:

Examiner:

For: PIEZOELECTRIC COMPOSITE DEVICE AND METHOD FOR MAKING SAME

**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**EXPRESS MAIL CERTIFICATE**

"Express Mail" label number EF360628136US

Date of Deposit 08/17/2001

I hereby state that the following *attached* paper or fee

**NEW UTILITY PATENT APPLICATION**

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. section 1.10, on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.



KURT G. HAMMERLE  
Reg. No. 36,819